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# UTILITY PATENT APPLICATION **TRANSMITTAL**

8028-42 (SPX200306-0021US) Attorney Docket No. Byung-Gil JEON First Inventor Nonvolatile Semiconductor Memory Device

| (Only for new nonprovisio   | nal applications under 37 CFR 1.53(b))   | Expres                           | s Mail Label No   | EV 41:           | 337074         | 18US           | 了(2  |  |  |  |
|---|--|----------------------------------|---|------------------|----------------|----------------|------|--|--|--|
| APPLICA   | TION ELEMENTS  | ADI                              | ADDRESS TO: Assistant Commissioner for Pa   |                  |                |                |      |  |  |  |
|   | cerning utility patent application contents.   | L                                | ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231        |                  |                |                |      |  |  |  |
|   | form (e.g., PTO/SB/17) duplicate for fee processing)                                   | 7                                | 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)                        |                  |                |                |      |  |  |  |
| 2. Applicant claims s<br>See 37 CFR 1.27  | small entity status.   |                                  | Nucleotide and/or Amino Acid Sequence Submission  |                  |                |                |      |  |  |  |
| Specification   | [Total Pages 26 ]  | ( <i>II</i><br>a.                | (if applicable, all necessary) a Computer Readable Form (CRF)                                     |                  |                |                |      |  |  |  |
| - Descriptive title   | of the invention   | a.<br>b.                         | · · · · · · · · · · · · · · · · · · ·   |                  |                |                |      |  |  |  |
|   | ce to Related Applications arding Fed sponsored R & D                                  | -                                | i. CD-ROM or CD-R (2 copies); or  |                  |                |                |      |  |  |  |
| - Reference to se   | equence listing, a table,  |                                  | ii. paper   |                  |                |                |      |  |  |  |
| <ul> <li>Background of</li> </ul>   | orogram listing appendix<br>the Invention  | C.                               |   |                  |                |                |      |  |  |  |
| - Brief Summary<br>- Brief Description  | of the Invention<br>on of the Drawings ( <i>if filed</i> )                             |                                  | ACCOMPANYING APPLICATION PARTS  |                  |                |                |      |  |  |  |
| <ul><li>Detailed Descr</li><li>Claim(s)</li></ul>   | iption   | 9.                               | 9. X Assignment Papers (cover sheet & document(s))  |                  |                |                |      |  |  |  |
| - Abstract of the   | Disclosure   | 10.                              | 10. 37 CFR 3.73(b) Statement (when there is an assignee) X Power of Attorney                      |                  |                |                |      |  |  |  |
| 4. X Drawing(s) (35 U   | J.S.C. 113) [Total Sheets 6 ]  | 11.                              | 11. English Translation Document (if applicable)  |                  |                |                |      |  |  |  |
| 5. Oath or Declaration  | [ Total Pages 2 ]  | 12.                              | Information D Statement (ID   |                  |                |                |      |  |  |  |
| a. Newly exec   | uted (original or copy)  | 13.                              | 13. Preliminary Amendment   |                  |                |                |      |  |  |  |
| b (for continual  | n prior application (37 CFR 1.63 (d))<br>htion/divisional with Box 18 completed)       | 14.                              | 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)                        |                  |                |                |      |  |  |  |
|   | ION OF INVENTOR(S) atement attached deleting inventor(s)                               | 15.                              | 15. X Certified Copy of Priority Document(s) (if foreign priority is claimed)                     |                  |                |                |      |  |  |  |
| named in  | the prior application, see 37 CFR  | 16.                              | 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 |                  |                |                |      |  |  |  |
| 1.63(d)(2)  | and 1.33(b).   |                                  |   |                  |                | Form PTO/SB/35 | 2038 |  |  |  |
| 6 Application Data  | Sheet. See 37 CFR 1.76   | 17. [                            |   | \$910.00 &       |                |                |      |  |  |  |
| 18. If a CONTINUING APPLI   | CATION, check appropriate box, and sup<br>set under 37 CFR 1 76:                       | ply the req                      | uisite information be   | elow and in a p  | orelimina      | ary amendment, |      |  |  |  |
| Continuation  | Divisional Continuation-in-part (CIP)  |                                  | of prior application No.:   |                  |                |                |      |  |  |  |
| Prior application information:  | Examiner   |                                  | Group Art Unit:   |                  |                |                |      |  |  |  |
| Box 5b, is considered a part o  | ONAL APPS only: The entire disclosure of the disclosure of the accompanying continuity | uation or di                     | visional application a  | ınd is hereby ir | corpora        |                |      |  |  |  |
| The incorporation can only be   | relied upon when a portion has been inadve   | <u>-</u>                         |   | a application p  | oarts.         |                | -    |  |  |  |
| Customer Number or Bar Code Label [Insert Customer No. or Altach bar code label here] or Correspondence address below |  |                                  |   |                  |                |                |      |  |  |  |
| Name  | Frank Chau, Esq.   |                                  |   |                  |                | 7              |      |  |  |  |
|   | F. CHAU & ASSOCIATES, LLC  |                                  |   |                  |                |                | 7    |  |  |  |
| Address   | 1900 Hempstead Turnpike  |                                  |   |                  |                |                |      |  |  |  |
| City  | East Meadow  | State                            | New York  | Zip C            | Zip Code 11554 |                |      |  |  |  |
| Country   | USA Tel  | Telephone 516-357-0091 Fax 516-3 |   |                  |                |                | 2    |  |  |  |
| Name (Print/Type)   | Koon Hon Wong  | Reg                              | istration No. (Atto   | rney/Agent)      | 48,4           | ·59            | \    |  |  |  |
| Signature   | Moon the Wa  |                                  |   | Date             | 2-             | 26-04          |      |  |  |  |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| FEE TRANSMITTAL   |                      |  |                                |  | Complete if Known            |              |             |                                  |                                   |                         |               |  |
|---|----------------------|--|--------------------------------|--|------------------------------|--------------|-------------|----------------------------------|-----------------------------------|-------------------------|---------------|--|
| FEE IRANSMITTAL   |                      |  |                                | ┗╙   | Application Number           |              |             |                                  |                                   |                         |               |  |
| for FY 2004   |                      |  |                                |  | Filing Date February 26,     |              |             | ary 26, 200                      | 5, 2004                           |                         |               |  |
|   |                      |  |                                |  | First I                      | Named        | Inven       | tor Byung                        | -gil JEON                         |                         |               |  |
| Effective 10/01/2003. Patent fees are subject to annual revision. |                      |  |                                |  | Exam                         | iner Na      | ame         |                                  |                                   |                         |               |  |
| Applicant claims small entity status. See 37 CFR 1.27             |                      |  |                                |  | — Art Unit                   |              |             |                                  |                                   |                         |               |  |
| TOTAL AN  | OUNT                 | OF PAYMENT                               | (\$) 950.00                    |  | Attorr                       | ney Dod      | ket N       | o. 8028-4                        | 41 (SPX200                        | )306-0021US)            |               |  |
| METH  | OD OF                | PAYMENT (check                           | all that apply)                |  |                              |              | FEE         | CALCULA                          | ATION (con                        | itinued)                |               |  |
| Check   | Credit               | card Money Order                         | Other None                     | 3. ADDITIONAL FEES Large Entity   Small Entity |                              |              |             |                                  |                                   |                         |               |  |
| Deposit A   | Account:             |  |                                |  |                              | Ĭ            |             | _                                |                                   |                         |               |  |
| Deposit   | 50-06                | 79                                       |                                | Fee<br>Code                                    | Fee<br>(\$)                  | Fee<br>Code  | Fee<br>(\$) | Fee                              | Description                       | n                       | Fee Paid      |  |
| Account<br>Number   | 30-00                | 10                                       |                                | 1051   | 130                          | 2051         | 65          | Surcharge - la                   | te filing fee or                  | oath                    |               |  |
| Deposit<br>Account  | F.CH/                | AU & ASSOCIAT                            | ES, LLC                        | 1052   | 50                           | 2052         |             | Surcharge - la<br>cover sheet    | te provisional f                  | filing fee or           |               |  |
| Name The Director is  | s authoria           | ed to: (check all that a                 | oply)                          | 1053   | 130                          | 1053         |             | Non-English s                    | pecification                      |                         | <b>└─</b> ┤┃  |  |
| Charge fee  |                      |  | it any overpayments            |  | 2,520                        | 1812 2       | ,           | - '                              | •                                 | te reexamination        | <b>├──┤</b> ┃ |  |
|   | • •                  | I fee(s) or any underpay                 | ment of fee(s)                 | 1804   | 920*                         | 1804         |             | Requesting pu<br>Examiner action | iblication of SII                 | R prior to              |               |  |
| Charge fee  | ` '                  | ed below, except for the eposit account. | e filing fee                   | 1805   | 1,840*                       | 1805         | 1,840*      | Requesting pu                    | ublication of SI<br>on            | R after                 |               |  |
|   | FE                   | E CALCULATION                            | <u> </u>                       | 1251   | 110                          | 2251         | 55          | Extension for                    | reply within firs                 | st month                |               |  |
| 1. BASIC FI   |                      |  |                                | 1252   | 420                          | 2252         | 210         | Extension for                    | reply within se                   | cond month              |               |  |
| Large Entity S  | mall Ent             | ity                                      | For Bold                       | 1253   | 950                          | 2253         | 475         | Extension for                    | reply within thi                  | ird month               |               |  |
|   | Fee Fee<br>Code (\$) | Fee Description                          | Fee Paid                       | 1254   | 1,480                        | 2254         | 740         | Extension for                    | reply within for                  | urth month              |               |  |
| 1001 770  | 2001 38              | 5 Utility filing fee                     | 770.00                         | 1255   | 2,010                        | 2255         | 1,005       | Extension for                    | reply within fiff                 | th month                |               |  |
| 1002 340  | 2002 17              | 0 Design filing fee                      |                                | 1401   | 330                          | 2401         | 165         | Notice of App                    | eal                               |                         |               |  |
| 1003 530  | 2003 26              | 5 Plant filing fee                       |                                | 1402   | 330                          | 2402         |             | -                                | n support of ar                   | n appeal                |               |  |
| 1004 770  | 2004 38              | 5 Reissue filing fe                      | e                              | 1403   | 290                          | 2403         | 145         | Request for or                   | ral hearing                       |                         |               |  |
| 1005 160  | 2005 8               | 0 Provisional filing                     | fee                            |  | 1,510                        | 1451         |             |                                  | ·                                 | use proceeding          |               |  |
| J   |                      | SUBTOTAL (1)                             | (\$) 770.00                    | 1452   | 110                          | 2452         | 55          | Petition to rev                  | ive - unavoidal                   | ble                     |               |  |
| 2 FXTRA (   | L AIM I              | EES FOR UTILIT                           | Y AND REISSUE                  |  | 1,330                        | 2453         |             |                                  | rive - unintentio                 | onal                    |               |  |
| 2. 27.1101  | <i></i>              | Extra Claims _                           | Fee from _                     |  | 1,330                        | 2501         |             | Utility issue fe                 | •                                 |                         |               |  |
| Total Claims  | 23                   | -20** = 3 X                              |                                | 1502<br>1503                                   | 480<br>640                   | 2502<br>2503 |             | Design issue fe                  |                                   |                         |               |  |
| Independent<br>Claims   | 4                    | =======================================  | 36 = 86                        | 1460   | 130                          | 1460         |             |                                  | e<br>e Commission                 | nor.                    |               |  |
| Multiple Deper  | ndent                |  | 290 =0                         | 1807   | 50                           | 1807         |             |                                  | e under 37 CF                     |                         |               |  |
| Large Entity  | Small E              | -<br>Intity                              |                                | 1806   | 180                          | 1806         |             | •                                |                                   | isclosure Stmt          |               |  |
| Fee Fee   | Fee                  | Fee Fee Descrip                          | <u>tion</u>                    |  |                              |              |             |                                  |                                   |                         | 40.00         |  |
| Code (\$)<br>1202 18  | Code<br>2202         |  | ss of 20                       | 8021   | 40                           | 8021         |             |                                  | ch patent assigns number of pro-  |                         | 70.00         |  |
| 1201 86   | 2201                 |  | aims in excess of 3            | 1809   | 770                          | 2809         | 385         | Filing a submit (37 CFR 1.12)    | ission after fina<br>9(a))        | ai rejection            |               |  |
| 1203 290  | 2203                 |  | dent claim, if not paid        | 1810   | 770                          | 2810         | 385         |                                  | itional invention<br>CFR 1.129(b) |                         |               |  |
| 1204 86   | 2204                 | 43 ** Reissue inde<br>over original      | pendent claims<br>patent       | 1801   | 770                          | 2801         | 385         | •                                |                                   | mination (RCE)          |               |  |
| 1205 18   | 2205                 | 9 ** Reissue clair<br>and over orig      | ns in excess of 20 inal patent | 1802   | 900                          | 1802         | 900         | Request for of a design ap       | expedited exar                    | mination                |               |  |
| SUBTOTAL (2) (\$) 140.00  |                      |  |                                |  | Other fee (specify)          |              |             |                                  |                                   |                         |               |  |
| **or number previously paid, if greater; For Reissues, see above  |                      |  |                                |  | uced by                      | Basic F      | iling Fe    | ee Paid                          | SUBTOTAL                          | . <b>(3)</b> (\$) 40.00 | )             |  |
| SUBMITTED E   | BY                   |  |                                |  |                              |              |             |                                  | (Complete (                       | if applicable))         |               |  |
| Name (Print/Typ   |                      | Koon Hon Wong                            |                                |  |                              | tion No.     | 48,4        | 459                              | Telephone                         | 516-357-0091            |               |  |
| Signature Kon The h   |                      |  |                                |  | (Attorney/Agent) Date 2-74-0 |              |             | 4                                |                                   |                         |               |  |
|   |                      | / IATUS                                  |                                | ·  |                              |              |             |                                  |                                   |                         |               |  |

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Atty. Docket No. 8028-41 (SPX200306-0021US)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### APPLICATION FEE TRANSMITTAL

| r:  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|
| Transmitted herewith for filing is the patent application of                                  |  |  |  |  |  |  |  |  |
| Inventor(s): BYUNG-GIL JEON, BYUNG-JUN MIN  |  |  |  |  |  |  |  |  |
| or: NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND ONE- TIME PROGRAMMING CONTROL METHOD THEREOF |  |  |  |  |  |  |  |  |
| This application is a:  |  |  |  |  |  |  |  |  |
| [X] New Application   |  |  |  |  |  |  |  |  |
| [ ] Continuation  |  |  |  |  |  |  |  |  |
| [ ] Continuation-In-Part (CIP)  |  |  |  |  |  |  |  |  |
| [ ] Divisional  |  |  |  |  |  |  |  |  |
| of co-pending U.S. application Serial No filed on   |  |  |  |  |  |  |  |  |
| CERTIFICATION UNDER 37 C.F.R. § 1.10  |  |  |  |  |  |  |  |  |

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date February 26, 2004 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EV 413370748US</u> addressed to: Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Koon Hon Wong
(Type or print name of person mailing paper)

(Signature of person mailing p

| Enclosed are:   |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| [X] 18 page(s) of specification   |  |  |  |  |  |  |  |  |  |
| ]1 page(s) of Abstract  |  |  |  |  |  |  |  |  |  |
| [X]7 page(s) of claims  |  |  |  |  |  |  |  |  |  |
| $[\mathbf{x}]$ 6 sheets of drawings $[\mathbf{x}]$ formal $[$ $]$ informal  |  |  |  |  |  |  |  |  |  |
| $\mathbf{x}$ ] 2 page(s) of Declaration and Power of Attorney   |  |  |  |  |  |  |  |  |  |
| [X] An Assignment of the invention to:  SAMSUNG ELECTRONICS CO., LTD  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |
| [ ] This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s).:  |  |  |  |  |  |  |  |  |  |
| APPLICATION NO(S).: FILING DATE   |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |
| [X] Priority under Title 35 United States Code, § 119 is<br>claimed from:   |  |  |  |  |  |  |  |  |  |
| Country Appln. No. Filed  |  |  |  |  |  |  |  |  |  |
| Korea 2003-48081 14 July 2003   |  |  |  |  |  |  |  |  |  |
| [X] Certified copy of which:  |  |  |  |  |  |  |  |  |  |
| [X] is enclosed   |  |  |  |  |  |  |  |  |  |
| [ ] will follow.  |  |  |  |  |  |  |  |  |  |
| Additional papers enclosed:   |  |  |  |  |  |  |  |  |  |
| [] <u>Preliminary Amendment</u> The fees to be charged are to be based on the number of claims remaining as a result of the attached Preliminary Amendment. |  |  |  |  |  |  |  |  |  |
| [ ] Information Disclosure Statement  |  |  |  |  |  |  |  |  |  |
| [ ] Form PTO-1449   |  |  |  |  |  |  |  |  |  |
| [] Other  |  |  |  |  |  |  |  |  |  |

### Fee Calculation (37 C.F.R. §1.16)

|             | Numbe |          |     | ${\tt Number}$ |     |             |        | sic Fee |
|-------------|-------|----------|-----|----------------|-----|-------------|--------|---------|
| For         | Filed | <u>d</u> |     | <u>Extra</u>   |     | <u>Rate</u> | \$_    | 770.00  |
| Total       |       |          |     | **             |     |             |        |         |
| Claims*     | 23    | -20      | _=_ | 3              |     | x \$ 18.00  | \$     | 54.00   |
| Independent |       |          |     |                |     |             |        |         |
| Claims      | 4     | - 3      | =   | 1              |     | x \$ 86.00  | \$     | 86.00   |
| Multiple    | [ ]   | yes      |     | Add'l.         | Fee | \$290.00    | \$     |         |
| Dependent   |       | _        |     |                |     |             |        |         |
| Claims      | [X]   | no       |     | Add'l.         | Fee | None        | <br>\$ |         |
|             |       |          |     |                |     |             |        |         |

TOTAL \$ 910.00

- [ ] Applicant Claims Small Entity Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$ .00.
- [X] Please charge fee of \$40.00 For recording the attached Assignment by Credit Card Payment Form PTO-2038 enclosed herewith.
- [X] Please charge fee of \$910.00 to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith.
- [ ] Charge fee to Deposit Account No. 50-0679. Order No. \_\_\_\_\_ TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

 $<sup>^\</sup>star$  Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

## Relate Back - 35 U.S.C. § 120

[ ] Amend the specification by inserting after the Title the sentence:

--This is a [] continuation [] continuation-in-part [] divisional of copending application Serial No.
\_\_\_\_\_\_ filed on \_\_\_\_\_\_, the disclosure of which in its entirety is incorporated-by-reference herein.--

Date: 2-76-04

signature of attorney Koon Hon Wong Reg. No. 48,459

F. CHAU & ASSOCIATES, LLC 1900 Hempstead Turnpike, Suite 501 East Meadow, New York 11554 Tel. No. (516) 357-0091 Fax. (516) 357-0092

FC/SKW:mel